

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/717,844 11/20/2003		Robert Ascenzi	2076US	3666	
22881	7590 06/27/2006	EXAMINER			
MATT C		KETTER,	KETTER, JAMES S		
SENIOR C GENAISS	COUNSEL ANCE PAHARMACEUTIO	ART UNIT	PAPER NUMBER		
FIVE SCI	ENCE PARK	1636	1636		
NEW HAVEN, CT 06511			DATE MAILED: 06/27/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicati	on No.	Applicant(s)					
		10/717,8	44	ASCENZI ET AL.					
		Examine	•	Art Unit					
	·	James S.		1636					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
1)[]	Responsive to communication(s) filed on								
		 his action is n	on-final						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
,—	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims	·							
4)⊠	Claim(s) 1-17 is/are pending in the applicati	ion							
	4a) Of the above claim(s) is/are withdrawn from consideration.								
	Claim(s) is/are allowed.								
-	☐ Stain(s) is a fe allowed. ☐ Claim(s) is a fe allowed. ☐ Claim(s) is a fe allowed.								
•	Section (3) 1-3,12,13,10 and 11 is/are rejected. ☐ Claim(s) 10,11,14 and 15 is/are objected to.								
	☐ Claim(s) are subject to restriction and/or election requirement.								
	on Papers								
9) The specification is objected to by the Examiner.									
10)⊠ The drawing(s) filed on <u>20 November 2003</u> is/are: a)⊠ accepted or b)☐ objected to by the Examiner.									
	Applicant may not request that any objection to the								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	inder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	2. Certified copies of the priority documents have been received in Application No								
	3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.									
	• .								
Attachment	(s)								
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)									
2) 🔲 Notice	e of Draftsperson's Patent Drawing Review (PTO-948)		Paper No(s)/Mail Da	te					
3) 🔲 Infom Paper	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 No(s)/Mail Date	08)	5) Notice of Informal Pa6) Other: <u>Notice to Con</u>)-152)				

Application/Control Number: 10/717,844

Art Unit: 1636

The disclosure is objected to because of the following informalities:

At page 4, line 2, a seven (7) base nucleotide sequence is disclosed, which is not found on either the Sequence Listing or the CRF. Applicants must provide a substitute CRF and Sequence Listing, as well as a statement that the content of the paper and computer readable copies are the same and, where applicable, contain no new matter, as required by 37 CFR § 1.821(e), (f) or (g), or §1.825(b) or (d).

Appropriate correction is required.

Claims 10, 11, 14 and 15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the

Art Unit: 1636

reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 1-7 are rejected under 35 U.S.C. 102(e) as being anticipated by Guarna et al. (A, newly cited).

The instant claims are drawn to a method for identifying a compound which is a candidta efor a herbicide, comprising contacting a DET2 enzyme with the compound, and detecting the presence or absence of binding between said compound and said DET2, wherein binding indicates the compound is a herbicide candidate. The identity of the DET2 is more narrowly from a plant, from <u>Arabidopsis</u>, or SEQ ID NO:2.

Guarna et al. teaches, e.g., as summarized in the Abstract, a method of testing a class of compounds on Arabidopsis. At column 4, in the Example, it is taught that germinating seeds were treated with the compound and the effects noted. Such inherently reads on detecting binding, as a lack of activity would mean that no binding to the enzyme would be occurring. The claimed method is not limited to testing the purified enzyme in vitro and looking directly for binding.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1, 2, 5-9, 12, 13, 16 and 17 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter

which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Practice of the full scope of the claimed invention depends on possession of at least a representative sample of DET2 genes and/or enzymes isolated or sequenced. However, only a very limited number of examples were available at the time of filing. Applicants only disclose the <u>Arabidopsis</u> form of the enzyme. The relationship between structure and function in the protein (and therefore gene) art is and was not adequately understood at the time of filing to have permitted one of skill in the art to have known the structure of any DET2 genes/enzymes beyond that already disclosed, i.e., <u>Arabidopsis</u>.

Any inquiry concerning this communication or earlier communications from the Examiner with respect to the examination on the merits should be directed to James Ketter whose telephone number is (571) 272-0770. The Examiner normally can be reached on M-F (9:00-6:30), with alternate Fridays off.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Remy Yucel, can be reached at (571) 272-0781.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Application/Control Number: 10/717,844

Art Unit: 1636

Page 5

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Jsk June 22, 2006

> JAMES KETTER PRIMARY EXAMINER

Application No. Applicant(s) 10/717.844 Ascenzi et al. **Notice to Comply** Examiner Art Unit 1636 James Ketter NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE **DISCLOSURES** Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)). The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s): 1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998). 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence" Listing" as required by 37 C.F.R. 1.821(c). 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e). 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d). 6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e). ☑ 7. Other: At page 4, line 2, a nucleotide sequence is disclosed, but is not shown on the Sequence Listing. or the CRF. **Applicant Must Provide:** An initial or substitute computer readable form (CRF) copy of the "Sequence Listing". An initial or substitute paper copy of the "Sequence Listing", as well as an amendment specifically directing its entry into the application. A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d). For questions regarding compliance to these requirements, please contact: For Rules Interpretation, call (703) 308-4216 or (703) 308-2923 For CRF Submission Help, call (703) 308-4212 or 308-2923

Patentin Software Program Support

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY